



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/864,791	05/24/2001	Subrata Mukherjee	50001.2061	2878

27045 7590 04/29/2004

ERICSSON INC.
6300 LEGACY DRIVE
M/S EVR C11
PLANO, TX 75024

EXAMINER

SHARMA, SUJATHA R

ART UNIT	PAPER NUMBER
----------	--------------

2684

DATE MAILED: 04/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/864,791

Applicant(s)

MUKHERJEE, SUBRATA

Examiner

Sujatha Sharma

Art Unit

2684

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 September 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>5</u> . | 6) <input type="checkbox"/> Other: _____ |

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-9,11-17,19 are rejected under 35 U.S.C. 102(b) as being anticipated by Hasan [US 5,724,658].

Regarding claim 1, Hasan discloses a method of call routing to wireless roamers in mobile telecommunications network. Hasan further discloses a method of:

- receiving a location update request from a guest user within a service area of the enterprise network (see summary and col. 3, lines 33-38);
- allocating a guest number to the guest user (see col. 3, lines 39-40);
- registering the guest user for service in the enterprise network and providing wireless services to the guest user (see summary, col. 3, lines 41-52 and Fig.3)

Regarding claim 2, Hasan further discloses a method comprising the step of the enterprise network emulating a Mobile Switching Center (MSC) in a Public Land Mobile Network (PLMN). See Fig. 3 and col. 3, lines 1-7.

Regarding claim 3, Hasan further discloses a method comprising the step of registering the guest user with a Home Location Register (HLR) of a PLMN. See Col. 3, lines 33-38.

Art Unit: 2684

Regarding claim 4, Hasan discloses a method comprising the step of the enterprise network authenticating the guest user with an HLR, for service by the enterprise network. See col. 3, lines 41-52

Regarding claims 5,6, Hasan discloses a method further comprising the step of the enterprise network emulating a Mobile Switching Center (MSC) with respect to the guest user and treating the guest user as if roaming from the enterprise network to an MSC of the PLMN. See summary, Fig. 3 and col. 3, lines 1-7.

Regarding claim 7, Hasan discloses a method comprising the step of the enterprise network de-registering the guest user. See summary and col. 3, lines 53-60.

Regarding claim 8, Hasan further discloses a method comprising the step of the enterprise network maintaining a pool of guest numbers. See summary and col. 3, lines 33-52.

Regarding claim 9, Hasan further discloses a method comprising the step of the enterprise network de-allocating the guest number by returning it to a pool of guest numbers. See summary and col. 3, lines 53-60.

Regarding claim 11, Hasan further discloses a method further comprising the step of the enterprise network providing wireless service to an enterprise user. See summary and Fig. 3.

Art Unit: 2684

Regarding claim 12, Hasan discloses a method of providing service to a guest user within a wireless telecommunication enterprise network, comprising the steps of:

- emulating a Mobile Switching Center (MSC) in a Public Land Mobile Network (PLMN); see Fig.3 and col.3, lines 1-7;
- maintaining a pool of guest numbers; see summary and col. 3, lines 33-52;
- receiving a location update request from a guest user; see summary and col. 3, lines 33-38;
- allocating a guest number to the guest user; see col. 3, lines 39-40;
- registering the guest user for service in the enterprise network; and the wireless telecommunication enterprise network providing wireless service to the guest user; See Col. 3, lines 33-38

Regarding claim 13, Hasan discloses a method further comprising the step of registering the guest user with a Home Location Register (HLR) of a PLMN. See summary and col. 3, lines 33-38.

Regarding claim 14, Hasan discloses a method comprising the step of the enterprise network authenticating the guest user with an HLR, for service by the enterprise network. See col. 3, lines 41-52.

Art Unit: 2684

Regarding claim 15, Hasan discloses a method further comprising the step of the enterprise network treating the guest user as if roaming from the enterprise network to an MSC of the PLMN. See summary, Fig. 3 and col. 3, lines 1-7.

Regarding claim 16, Hasan discloses a method comprising the step of the enterprise network de-registering the guest user. See summary and col. 3, lines 53-60.

Regarding claim 17, Hasan further discloses a method comprising the step of the enterprise network de-allocating the guest number by returning it to a pool of guest numbers. See summary and col. 3, lines 53-60.

Regarding claim 19, Hasan further discloses a method further comprising the step of the enterprise network providing wireless service to an enterprise user. See summary and Fig. 3.

3. Claims 20-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Patel [US 6,314,284].

Regarding claim 20, Patel discloses a method and system for providing service transparency for mobile calls within a H.323 system. Patel further discloses:

- a Public Land Mobile Network (PLMN) supporting wireless service for a plurality of wireless terminals, the PLMN including at least one Mobile Switching Center (MSC) for registration of wireless terminals; See summary and Fig. 2

Art Unit: 2684

- an enterprise network supporting service for a plurality of enterprise terminals within a service area of the enterprise network, the enterprise network including means for supporting access by a wireless terminal to services of the enterprise network; See summary and Fig. 3,4 and col. 5, lines 5-65
- and a wireless terminal native to the PLMN and guest to the enterprise network wherein the enterprise network further comprises means for allocating a guest number to the wireless terminal for use by the wireless terminal within the service area of the enterprise network. See summary and col. 5, lines 5-65.

Regarding claims 21 and 22, Patel further discloses a method comprising means for registering and authenticating the guest terminal with a Home Location Register (HLR) of the PLMN. See summary and col. 6, lines 15-51.

Regarding claim 23, Patel discloses the enterprise network further comprises an H.323 network. See Figs 2-4

Regarding claim 24, Patel further discloses the system wherein the PLMN further comprises a Global System for Mobile communications (GSM) network. See col. 5, lines 18-65.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 10,18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hasan [US 5,724,658] in view of Mukherjee [WO 00/39965].

Regarding claims 10,18, Hasan discloses all the limitations as claimed. However he is silent to disclose a method comprising the step of the enterprise network using H.323 signaling for communication among elements of the enterprise network.

Mukherjee teaches a method comprising the step of the enterprise network using H.323 signaling, which is well known in the art, for communication among elements of the enterprise network. See summary of invention.

Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to use H.323 signaling as a design choice.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Delis [US 6,119,001] Roamer service auto-activation and de-activation in a home location register

Gentry [US 6,453,162] Method and system for subscriber provisioning of wireless services

Art Unit: 2684


Grohn [US 6,628,951] Procedure and system for the transmission of information and establishment of a telecommunication connection

Bouvier [US 6,430,276] Telecommunications system and method for providing generic network access service

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sujatha Sharma whose telephone number is 703-305-5298. The examiner can normally be reached on Mon-Fri 7.30am - 4.00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 703-308-7745. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Sujatha Sharma
March 16, 2004


NAY MAUNG
SUPERVISORY PATENT EXAMINER